

IN THE CLAIMS

Please amend Claims 1-20 as follows:

*S/J B'*

1 1. (Amended) A disk for a hard disk drive, comprising:  
2 a disk having at least one side with a plurality of tracks, each track including at least  
3 one group of sectors, each sector within said group includes a burst in a servo field which  
4 corresponds to a portion of track position information, said plurality of portions of track  
5 position information in the corresponding plurality of sectors within said group are combined  
6 to provide a track position of a corresponding track [of said tracks having a first burst in a  
7 first servo field and a second burst in a second servo field, said first burst providing a first  
8 portion of track position information and said second burst providing a second portion of  
9 track position information, said first and second portions in combination providing a position  
10 of a corresponding track].

*A1*

1 2. (Amended) The disk as recited in claim 1, wherein said plurality of bursts  
2 [first burst and said second bursts] are located on consecutive sectors [of each track].

1 3. (Amended) The disk as recited in claim 2, wherein each servo field in each  
2 sector includes a second [track further comprises a third] burst that provides a sector  
3 sequence number identifying [that identifies] the sequence position of each of said  
4 consecutive sectors.

1           4. (Amended) The disk as recited in claim 1, wherein each track includes at least  
2 one group of six sectors [further comprises a third burst that provides a third portion of track  
3 position information, said first, second and third portions in combination providing a position  
4 of a corresponding track].

1           5. (Amended) The disk as recited in claim 4, wherein the six sectors are in  
2 consecutive order [said first, said second and said third bursts are located on consecutive  
3 sectors of each track].

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CONT.

1           6. (Amended) The disk as recited in claim 5, wherein each servo field in the six  
2 sectors includes a second [track further comprises a fourth] burst that provides a sector  
3 sequence number identifying [that identifies] the sequence position of each of said  
4 consecutive sectors, said plurality of portions of track position information and the  
5 corresponding sequence number in the consecutive six sectors, in combination, providing a  
6 position of a corresponding track [; said first, second and third portions and their  
7 corresponding sequence numbers in combination providing a position of a corresponding  
8 track].

1           7. (Amended) The disk as recited in claim 1, wherein a first burst in a first servo  
2 field of a first sector [each track further comprises a third burst that] provides a quadrant  
3 position of said disk.

1        8. (Amended) The disk as recited in claim 1, wherein said disk has a second side  
2        with a second plurality of tracks, wherein each track on each side of said disk includes at least  
3        one group of sectors each having said burst in said servo field corresponding to a portion of  
4        track position information [said first burst and said second burst].

1        9. (Amended) The disk as recited in claim 8 [2], wherein a first burst in a first  
2        servo field of a first sector and a second burst in a second servo field of a second sector [each  
3        track on each side of said disk further comprises a third burst and a fourth burst, said third  
4        and fourth bursts] providing a first portion and a second portion of disk side position  
5        information, respectively, said first and second portions of disk side position information in  
6        combination providing a track position of a side of the disk.

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CONT' 6

1        10. (Amended) A hard disk drive, comprising:  
2        a housing;  
3        a spin motor mounted to said housing;  
4        an actuator arm mounted to said spin motor;  
5        a disk attached to said spin motor, said disk having at least one side with a plurality of  
6        tracks, each track including at least one group of sectors, each sector within said group  
7        includes a burst in a servo field which corresponds to a portion of track position information,  
8        said plurality of portions of track position information in the corresponding plurality of  
9        sectors within said group are combined to provide a track position of a corresponding track  
10      [of said tracks having a first burst in a first field and a second burst in a second field, said  
11      first burst providing a first portion of track position information and said second burst

12 providing a second portion of track position information, said first and second portions in  
13 combination providing a position of a corresponding track]; and  
14 a read/write head mounted to said actuator arm for reading said at least one side of  
15 said disk.

1 11. (Amended) The hard disk drive as recited in claim 1, wherein said plurality of  
2 bursts [first burst and said second bursts] are located on consecutive sectors of each track.

1 12. (Amended) The hard disk drive as recited in claim 11, wherein each servo  
2 field in each sector includes a second [track further comprises a third] burst that provides a  
3 sector sequence number identifying [that identifies] the sequence position of each of said  
4 consecutive sectors.

1 13. (Amended) The hard disk drive as recited in claim 10, wherein each track  
2 includes at least one group of six sectors [further comprises a third burst that provides a third  
3 portion of track position information, said first, second and third portions in combination  
4 providing a position of a corresponding track].

1 14. (Amended) The hard disk drive as recited in claim 13, wherein said six  
2 sectors are located consecutively [said first, said second and said third bursts are located on  
3 consecutive sectors of each track].

15. (Amended) The hard disk drive as recited in claim 14, wherein each servo  
field in the six sectors includes a second [track further comprises a fourth] burst that provides  
a sector sequence number identifying [that identifies] the sequence position of each of said  
consecutive sectors, said plurality of portions of track position information and the  
corresponding sequence number in the consecutive six sectors, in combination, providing a  
position of a corresponding track [; said first, second and third portions and their  
corresponding sequence numbers in combination providing a position of a corresponding  
track].

1        16. (Amended) The hard disk drive as recited in claim 10, wherein said disk  
2 further comprises a second side with a second plurality of tracks, wherein each track on each  
3 side of said disk includes at least one group of sectors each having said burst in said servo  
4 field corresponding to a portion of track position information [said first burst and said burst,  
5 each track on each side of said disk further including a third burst and a fourth burst, said  
6 third and fourth bursts providing a first portion and a second portion of disk side position  
7 information respectively, said first and second portions of disk side position information in  
8 combination providing a position of a side of the disk]; and

9 wherein said hard disk drive further comprises a second read/write head mounted to  
10 said actuator arm for reading said second side of said disk.

1           17. (Amended) A method for providing servo information on a disk in a hard  
2 disk drive, comprising the steps of:  
3                   a) providing a disk having [a] at least one side with a plurality of  
4 tracks, each track including at least one group of sectors, each sector within said group

5     includes a burst in a servo field which corresponds to a portion of track position  
6     information [of said tracks having a first in a first servo field and a second burst in a  
7     second servo field, said first burst providing a first portion of track position information  
8     and said second burst providing a second portion of track position information];  
9         b)     reading said plurality of bursts [first burst]; and  
10        [c)     reading said second burst; and]  
11        c) [d)] combining said plurality of portions of track position information [first  
12     and said second portions] to provide a track position of a corresponding track.

A/11  
CONT

1       18. (Amended) The method as recited in claim 17, wherein step a) further comprises  
2     the step of: providing a second [third] burst in each of the plurality of servo fields that provides a  
3     sector sequence number identifying [that identifies] the sequence position of each of said  
4     [consecutive] sectors;

5                wherein the method further comprises the steps of:  
6                reading said second [third] burst in each sector [, after step c)]; and  
7                [the step of: e)] combining said plurality of portions [first, and second portions] and their  
8     corresponding sequence numbers to provide a position of a corresponding track.

1       19. (Amended) The method as recited in claim 17, wherein a first burst in a first  
2     servo field of a first sector providing [step a) further comprises the step of providing a third  
3     burst that provides] a quadrant position of said disk.

1       20. (Amended) The method as recited in claim 17, wherein in step a), said disk  
2     has a second side with a second plurality of tracks, wherein each track on each side of said

3 disk includes at least one group of sectors each having a burst in servo field, wherein a first  
4 burst in a first servo field of a first sector and a second burst in a second servo field of a  
5 second sector [said first burst and said second burst; and wherein each track on each side of  
6 said disk further comprises a third burst and a fourth burst, said third and fourth bursts]  
7 providing a first portion and a second portion of disk side position information respectively;  
8 wherein said method further comprises the steps of:  
9       d) [e)] reading said first and second portions of disk side position information; and  
10       e) [f)] combining said first and second portions to provide a position of a side of the  
11 disk.

Please add claims 21-24 as follows:

1       21. (New) A disk for a hard disk drive, comprising:  
2           a disk including at least one side having a plurality of tracks, each track including a  
3           plurality of groups of sectors, each group of sectors including a plurality of sectors, each  
4           sector in each group of sectors includes a burst in a servo field having a portion of track  
5           position information, said portions of track position information in each group of sectors in  
6           combination providing a track position of a corresponding track.

1       22. (New) The disk as recited in claim 21, wherein each group of sectors includes  
2       six sectors.

1           23. (New) The disk as recited in claim 22, wherein (i) a first sector includes a  
2       first burst in a first servo field providing a quadrant position of said disk, (ii) a second sector  
3       includes a second burst in second servo field providing a head position of said disk, and (iii) a  
4       third sector includes a ~~third~~ burst in a third servo field providing upper bits of track position  
5       information.

1           24. (New) The disk as recited in claim 23 wherein each sector further includes a  
2       fourth burst in the respective servo fields, said fourth burst providing lower bits of track  
3       position information.